

Message Text

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ACTION OES-05

INFO OCT-01 EUR-12 ISO-00 AID-05 CEA-01 CIAE-00 CIEP-02

COME-00 DODE-00 EB-07 FEAE-00 FPC-01 H-02 INR-07

INT-05 L-03 NSAE-00 NSC-05 OMB-01 PM-04 USIA-15

SAM-01 SP-02 SS-15 STR-04 TRSE-00 /098 W

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R 162041Z JAN 76

FM AMEMBASSY BONN

TO SECSTATE WASHDC 5715

INFO ERDA GERMANTOWN

UNCLAS SECTION 01 OF 02 BONN 00819

E.O. 11652: N/A

TAGS: TECH, ENRG, GW

SUBJECT: BACKGROUND INFORMATION ON FOREIGN ENERGY

R&D PROGRAMS

REF: STATE 301432 (DEC. 23,1975)

1. SUMMARY: FOLLOWING DATA ARE PRESENTED IN RESPONSE TO REFTEL REQUEST (ITEMS I-B AND II-B) FOR DATA ON FRG ENERGY R&D PRIORITIES AND BUDGETS.

- .943 :9.043#3,-

SIVE REPORT WILV BE SUBMITTED ASAP. GERMAN ENERGY R&D BUDGET FOR CY 1976 TOTALS \$517.5 MILLION (DM2.62) PREDOMINANTLY NUCLEAR (\$453.8 MILLION). NON-NUCLEAR ENERGY R&D EMPHASIZES COAL TECHNOLOGY, ENERGY CONVERSION AND CONSERVATION. END SUMMARY.

2. NON-NUCLEAR ENERGY R&D PROGRAM PRIORITIES ARE INDICATED BY FOLLOWING BUDGET ALLOCATIONS (MILLIONS OF DOLLARS):

A. DEVELOPMENT OF INDUSTRIAL-SCALE METHODS FOR COAL GASIFICATION AND LIQUEFICATION \$27.1

B. ENERGY CONVERSION METHODS -- GAS-STEAM

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TURBINE; HIGH-VOLTAGE TECHNIQUES, SUPER-CONDUCTING

CABLES; ELECTRIC AND THERMAL STORAGE; UTILIZATION
OF SOLAR AND GEOTHERMAL AND WIND ENERGY \$13.4

C. RATIONAL USE OF ENERGY IN INDUSTRY AND
HOUSEHOLDS - HEAT INSULATION, HEAT PUMPS, DISTRICT
HEATING, HEAT RECOVERY \$10.5

D. SEISMIC AND GEOCHEMICAL PROSPECTING METHODS
FOR PETROLEUM AND NATURAL GAS; DEEP-DRILLING ERROR
REDUCTION INCLUDING PARTICIPATION IN FOREIGN
DEVELOPMENTS \$ 9.1

E. ADVANCEMENT OF EXPLORATION TECHNIQUES,
IMPROVED COAL MINING AND DRESSING METHODS.
(INTRODUCTION OF NEW TECHNIQUES IS SUPPORTED BY THE
FEDERAL ECONOMICS MINISTRY "INNOVATIONS IN HARD
COAL MINING) \$ 3.6

TOTAL NON-NUCLEAR R&D: \$ 63.7

NON-NUCLEAR ENERGY R&D CONSTITUTES 12 PERCENT OF THE
TOTAL R&D BUDGET.

3. PRIORITIES FOR NUCLEAR ENERGY R&D ARE INDICATED
BY THE FOLLOWING BUDGET FIGURES FOR CALENDAR YEAR 1976

(MILLIONS OF DOLLARS):

FAST BREEDERS	\$ 77.8	
SUPERPHENIX	.8	
HIGH-TEMPERATURE REACTORS		26.7
NUCLEAR SHIPS	.2	

REACTOR STUDIES	.3	
PUBLIC RELATIONS ON REACTORS		1.2
COMPONENT R&D	1.9	
SAFETY RESEARCH	24.4	
SUB-TOTAL "REACTORS"	133.3	
NATURAL URANIUM	13.4	
US ENRICHED URANIUM	.04	

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TO SECSTATE WASHDC 5716

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FUEL CYCLE: ENRICHM.R&D	\$ 5L.7
PU FACILITIES	1.9
U-233 FABRICATION FROM HTR	
FUEL ELEMENTS	.2
REPROCESSING R&D	4.0
WASTE DISPOSAL	13.7
SUB-TOTAL "FUELS"	84.94
"REACTOR AND FUEL TECHNOLOGY"	218.24 TOTAL
RESEARCH CENTERS	
JUELICH, KARLSRUHE,GEESTHACHT,	
GARCHING	232.9
IAEA, VIENNA	2.7
TOTAL NUCLEAR R&D	\$ 453.8

4. NOTE THAT CY76 FUNDS FOR THE NUCLEAR RESEARCH CENTERS ARE ALMOST EQUAL TO THOSE ALLOTTED FOR REACTORS AND FUEL TECHNOLOGY. FEDERAL SUPPORT FOR FAST BREEDER REACTOR DEVELOPMENT WILL REPRESENT 71.4 PERCENT OF THE TOTAL PROJECT COST UP TO 1980 (\$545.4 MILLION OF \$764.1 MILLION). FEDERAL GOVERNMENT SUPPORT FOR HIGH TEMPERATURE REACTOR DEVELOPMENT REPRESENTS 69.1 PERCENT UNCLASSIFIED

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OF THE PROJECT COST UP TO 1980 (\$ 356.1 MILLION OF \$515.3 MILLION). THE BALANCE OF THE FUNDS FOR THESE TWO PROJECTS COMES FROM INDUSTRY AND THE STATE GOVERNMENT AND FROM NETHERLANDS AND BELGIUM (FOR THE FAST BREEDER).

5. OTHER RELEVANT EMBASSY REPORTS ARE: BONN A-53, JANUARY 1974; BONN A-617, DECEMBER 1974; AND BONN A-571 DECEMBER 1975. AN ENGLISH-LANGUAGE COPY OF THE "ENERGY R&D PROGRAM OF THE GOVERNMENT OF THE FRG - ANNUAL REPORT 1974 HAS BEEN POUCHED TO ERDA FOR DR. VANDERRYIN.

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